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JUL 16 1964

CURRENT SERIAL RECORDS

**WATER SUPPLY OUTLOOK**  
and  
**FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS**  
for  
**NEVADA**

UNITED STATES DEPARTMENT of AGRICULTURE--SOIL CONSERVATION SERVICE,  
and

NEVADA DEPARTMENT of CONSERVATION and NATURAL RESOURCES  
DIVISION of WATER RESOURCES

Data included in this report were obtained by the agencies named above in cooperation with the Federal, State and private organizations listed on the last page of this report.

AS OF  
**JAN. 1, 1964**

# UNITED STATES DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

## To Recipients of Water Supply Outlook Reports:

The climate of the cultivated and populated areas of the West is characterized by relatively dry summer months. Such precipitation as occurs falls mostly in the winter and early spring months when it is of little immediate benefit to growing crops. Most of this precipitation falls as mountain snow which stays on the ground for months, melting later to sustain streamflow during the period of greatest demand during late spring and summer. Thus, nature provides in mountain snow an imposing water storage facility.

The amount of water stored in mountain snow varies from place to place as well as from year to year and accordingly, so does the runoff of the streams. The best seasonal management of variable western water supplies results from advance estimates of the streamflow.

A snow survey consists of a series of about ten samples taken with specially designed snow sampling equipment along a permanently marked line, up to 1000 feet in length, called a snow course. The use of snow sampling equipment provides snow depth and water equivalent values for each sampling point. The average of these values is reported as the snow survey measurement for a snow course.

Snow surveys are made monthly or semi-monthly beginning in January or February and continue through the snow season until April, May or June. Currently more than 1400 western snow courses are measured each year. These measurements furnish the key data for water supply forecasts.

Streamflow forecasts are obtained by a comparison of total or maximum snow accumulation, as measured by snow water equivalent, to the subsequent spring and summer or snowmelt season runoff over a period of years. The snow water equivalent measured in selected snow courses provides most of the index to the streamflow forecast for the following season. More accurate forecasts are usually obtained when other factors such as soil moisture, base flow and spring precipitation are considered and included in the forecast procedure. Early season forecasts assume average climatic conditions through the snowmelt season.

Listed below are the Federal-State-Private Cooperative Snow Survey and Water Supply Forecast reports available for the West which contain detailed information on snow survey measurements, streamflow forecasts, reservoir storage, soil moisture and other guide data to water management and conservation decisions. Soil Conservation Service Reports may be secured from Water Supply Forecasting Unit, Soil Conservation Service, P.O. Box 2807, Portland, Oregon 97208.

## PUBLISHED BY SOIL CONSERVATION SERVICE

REPORTS	ISSUED	LOCATION	COOPERATING WITH
RIVER BASINS			
WESTERN UNITED STATES	MONTHLY (FEB.-MAY)	PORTLAND, OREGON	ALL COOPERATORS
BASIC DATA SUMMARY	OCTOBER 1	PORTLAND, OREGON	ALL COOPERATORS
STATES			
ALASKA	MONTHLY (MAR.-MAY)	PALMER, ALASKA	ALASKA S.C.D.
ARIZONA	SEMI-MONTHLY (JAN. 15 - APR. 1)	PHOENIX, ARIZONA	SALT R. VALLEY WATER USERS ASSOC. ARIZ. AGR. EXP. STATION
COLORADO AND NEW MEXICO	MONTHLY (FEB.-MAY)	FORT COLLINS, COLORADO	COLO. STATE UNIVERSITY COLO. STATE ENGINEER N. MEX. STATE ENGINEER
IDAHO	MONTHLY (JAN.-JUNE)	BOISE, IDAHO	IDAHO STATE RECLAMATION ENGINEER
MONTANA	MONTHLY (JAN.-JUNE)	BOZEMAN, MONTANA	MONT. AGR. EXP. STATION
NEVADA	MONTHLY (JAN.-MAY)	RENO, NEVADA	NEVADA DEPT. OF CONSERVATION AND NATURAL RESOURCES - DIVISION OF WATER RESOURCES
OREGON	MONTHLY (JAN.-JUNE)	PORTLAND, OREGON	OREG. STATE UNIVERSITY OREGON STATE ENGINEER
UTAH	MONTHLY (JAN.-JUNE)	SALT LAKE CITY, UTAH	UTAH STATE ENGINEER
WASHINGTON	MONTHLY (FEB.-JUNE)	SPOKANE, WASHINGTON	WN. STATE DEPT. OF CONSERVATION
WYOMING	MONTHLY (FEB.-JUNE)	CASPER, WYOMING	WYOMING STATE ENGINEER

## PUBLISHED BY OTHER AGENCIES

REPORTS	ISSUED	AGENCY
BRITISH COLUMBIA	MONTHLY (FEB.-JUNE)	WATER RESOURCES SERVICE, DEPT. OF LANDS, FOREST AND WATER RESOURCES, PARLIAMENT BLDG., VICTORIA, B.C., CANADA
CALIFORNIA	MONTHLY (FEB.-MAY)	CALIF. DEPT. OF WATER RESOURCES, P.O. BOX 388, SACRAMENTO, CALIF.



**WATER SUPPLY OUTLOOK**  
and  
**FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS**  
**for**  
**NEVADA**

*Report prepared by*

**MANES BARTON**

*and*

**ROY E. MALSOR, JR.**

SOIL CONSERVATION SERVICE  
1479 SOUTH WELLS AVENUE  
RENO, NEVADA

**JANUARY 8, 1964**

*Issued by*

**CHARLES W. CLEARY, JR.**

STATE CONSERVATIONIST  
SOIL CONSERVATION SERVICE  
RENO, NEVADA

**HUGH A. SHAMBERGER**

DIRECTOR  
DEPARTMENT OF CONSERVATION AND  
NATURAL RESOURCES  
CARSON CITY, NEVADA



# INDEX TO NEVADA SNOW COURSES ( By Basins )

NUMBER	NAME	SEC.	TWP.	RGE.	ELEV.
<b>SNAKE RIVER BASIN</b>					
<b>SNAKE RIVER</b>					
15H1MA	BEAR CREEK	31	46N	58E	7800
15H4MP*	BIG BENO	30	45N	56E	6700
15H2	FOX CREEK	33	46N	58E	6800
15H13	GOAT CREEK	31	46N	80E	8800
15H5*	GOLD CREEK	31	45N	56E	6600
15H15A	HUMMINGBIRD SPRINGS	6	45N	60E	8945
14H1	JACKS CREEK	6	42N	62E	7000
15H14	POLE CREEK RANGER STATION	13	46N	59E	8330
15H18a	RED POINT	15	47N	61E	7940
15H3A	76 CREEK	6	44N	58E	7100
15H19a	STAG MTN.	29	40N	50E	7700

<b>OWYHEE RIVER</b>					
15H4MP	BIG BENO	30	45N	56E	6700
17H2*	BUCKSKIN, LOWER	25	45N	39E	6700
17H1*	BUCKSKIN, UPPER	11	45N	39E	7200
16H6B	COLUMBIA BASIN	31	44N	53E	6650
16H7*	FRY CANYON	31	43N	54E	6700
15H5	GOLD CREEK	31	45N	56E	6600
17H4*	GRANITE PEAK	22	44N	39E	7800
16H1M	JACK CREEK, LOWER	18	42N	53E	6800
16H2A	JACK CREEK, UPPER	9	42N	53E	7250
16H4	JACKS PEAK	28	42N	53E	8420
16H5	LAUREL DRAW	20	45N	53E	6700
17G4a	LOUSE CANYON (OREG.)	27	40S	44E	6440
17H3*	MARTIN CREEK	18	44N	40E	6700
15H6MP*	RODEO FLAT	36	43N	53E	6800
15H19a*	STAG MTN.	29	40N	50E	7700
15H9MP	TAYLOR CANYON	35	39N	53E	6200
16H7a*	TOE JAM	29	40N	50E	7700
15HB*	TREMEWAN RANCH	9	39N	55E	5700

## INTERIOR

<b>UPPER HUMBOLDT RIVER</b>					
15J17a	AMERICAN BEAUTY	32	31N	58E	7800
15H1MA	BEAR CREEK	31	48N	58E	7800
15H4MP*	BIG BENO	30	45N	56E	6700
16H6a	COLUMBIA BASIN	31	44N	53E	6650
15J12A	CORRAL CANYON	27	28N	57E	8500
15J1MP	ORSEY BASIN	28	35N	60E	8100
15J3	ORY CREEK	5	34N	60E	6500
15H2*	FOX CREEK	33	46N	58E	6800
15H7	FRY CANYON	31	43N	54E	6700
15H5*	GOLD CREEK	31	45N	56E	6600
15J9MP	GREEN MOUNTAIN	23	29N	57E	8000
15J10	HARRISON PASS #1	9	28N	57E	6600
15J11	HARRISON PASS #2	16	28N	57E	7400
16H1M*	JACK CREEK, LOWER	18	42N	53E	6800
16H2A*	JACK CREEK, UPPER	9	42N	53E	7250
16H4*	JACKS PEAK	28	42N	53E	8420
15J4	LAMOILLE #1	15	32N	58E	7100
15J5	LAMOILLE #2	14	32N	58E	7300
15J6M	LAMOILLE #3	24	32N	58E	7700
15J7	LAMOILLE #4	19	32N	59E	8000
15J8P	LAMOILLE #5	31	32N	59E	8700
15J16a	ROBINSON LAKE	23	33N	59E	9200
15H6MP	RODEO FLAT	36	43N	53E	6800
15J2	RYAN RANCH	1	34N	59E	5800
15H19a*	STAG MTN.	29	40N	50E	7700
15H3A*	76 CREEK	6	44N	58E	7100
15H9MP*	TAYLOR CANYON	35	39N	53E	6200
16H7a*	TOE JAM	29	40N	50E	7700
15HB*	TREMEWAN RANCH	9	39N	55E	5700
15H10P	TROUT CREEK, LOWER	28	37N	61E	6900
15H11A	TROUT CREEK, UPPER	4	36N	61E	8500

<b>LOWER HUMBOLDT RIVER</b>					
17K1	BIG CREEK CAMP GROUND	10	17N	43E	6600
17K2	BIG CREEK MINE	23	17N	43E	7600
17K3	BIG CREEK, UPPER	26	17N	43E	8000
17H2	BUCKSKIN, LOWER	25	45N	39E	6700
17H1	BUCKSKIN, UPPER	11	45N	39E	7200
17J2	GOLCONOA #2	22	35N	39E	6000
17H4	GRANITE PEAK	22	44N	39E	7800
17H5	LAMANCE CREEK	13	42N	38E	6000
17L1	LOWER CORRAL	12	11N	40E	7500
17H3	MARTIN CREEK	18	44N	40E	6700
16H3AP	MIDAS	18	39N	46E	7200
16H7	TOE JAM	29	40N	50E	7700
17L2	UPPER CORRAL	20	11N	41E	8500

<b>EASTERN NEVADA</b>					
14L1	BAKER #1	29	13N	69E	7950
14L2	BAKER #2	30	13N	69E	8950
14L3	BAKER #3	25	13N	88E	9250
14K2	BERRY CREEK	26	17N	65E	9100
14K1	BIRD CREEK	34	19N	65E	7500
15J13	CAVE CREEK	25	27N	57E	7500
15J14	HAGER CANYON	34	27N	57E	8000
15J15	HOLE-IN-MTN	6	35N	61E	7900
14K8	KALAMAZOO CREEK	34	20N	65E	7400
14K3	MURRAY SUMMIT	25	16N	62E	7250
15K1	ROBINSON SUMMIT	34	18N	61E	7600
14K7	SILVER CREEK #2	30	16N	89E	8000
14K5	WARD MOUNTAIN #2	25	15N	62E	7875
15L1*	WHITE RIVER #1	31	13N	59E	7400

<b>CENTRAL GREAT BASIN</b>					
18M2	CAMPITO MTN (CAL.)	19	55	35E	10200
15N2	CLARK CANYON	8	19S	56E	9000
18G6a*	ODON CREEK (OREG.)	14	41S	34E	6000
18M1	MONTGOMERY PASS	4	1N	33E	7100
18M3a	PINCHOT CREEK	28	1N	33E	9300
18M4a	PLUTE PASS (CAL.)	33	4S	33E	11700
15N1	TROUGH SPRINGS	23	18S	55E	8500

<b>NORTHERN GREAT BASIN</b>					
19H1	BALO MOUNTAIN	17	45N	21E	8720
20H5	BARBER CREEK	23	39N	16E	6500
20H6	CEDAR PASS	12	43N	14E	7100
18H1	OISASTER PEAK	8	47N	34E	6500
20H3a	OISMAL SWAMP (CAL.)	31	48N	22E	7000
20H7	EAGLE PEAK	35	40N	15E	7200
19H3	49-MTN	7	42N	19E	8000
19H2	HAYS CANYON	1	39N	18E	6400
18H2	LEONARDO CREEK	13	42N	28E	5900
19H4a	LITTLE BALLY MTN	8	45N	19E	6000
17G5a	OREGON CANYON (OREG.)	9	40S	40E	7240
17H6a	QUINN RIDGE	9	47N	41E	6300
20H4	RESERVATION CREEK	12	46N	15E	5900
18G5a	TROUT CREEK (OREG.)	10	41S	38E	7800

<b>LAKE TAHOE</b>					
19L14	OAGGETTS PASS	19	13N	19E	7350
20L5	ECHO SUMMIT (CAL.)	6	11N	18E	7450
19L2	FREEL BENCH (CAL.)	36	12N	18E	7300
19K8	GLENBROOK #2	13	14N	18E	6900
19L3M	HAGANS MEADOW (CAL.)	36	12N	18E	8000
20L4	LAKE LUCILLE (CAL.)	28	12N	17E	8200
19K4M	MARLETTE LAKE	13	15N	18E	8000
19K2*	MT. ROSE	7	17N	19E	9000
20L3	RICHARDSONS #2 (CAL.)	6	12N	18E	6500
20L1	RUBICON #1 (CAL.)	6	13N	17E	8100
20L2	RUBICON #2 (CAL.)	6	13N	17E	7500
20K16	TAHOE CITY (CAL.)	8	15N	17E	6250
19L1	UPPER TRUCKEE (CAL.)	21	12N	18E	6400
20K17M	WARD CREEK (CAL.)	21	15N	16E	7000

<b>TRUCKEE RIVER</b>					
20K14	BOCA #2 (CAL.)	28	18N	17E	5900
20K11	DOONER LAKE #1 (CAL.)	14	17N	15E	5950
20K21	DOONER PARK #2 (CAL.)	3	16N	16E	6000
20K10*	DOONER SUMMIT (CAL.)	25	17N	14E	6900
20K7*	FORGYCE LAKE (CAL.)	34	18N	13E	6500
20K8	FURNACE FLAT (CAL.)	10	17N	13E	6700
20K4M	INDEPENDENCE CAMP (CAL.)	34	19N	15E	7000
20K3	INDEPENDENCE CREEK (CAL.)	14	19N	15E	6500
20K5	INDEPENDENCE LAKE (CAL.)	9	18N	15E	8450
19K3	LITTLE VALLEY	17	18N	19E	6300
19K2	MT. ROSE	7	17N	19E	9000
20K6	SAGE HEN CREEK (CAL.)	7	18N	16E	6500
20K19	SOUAW VALLEY #2 (CAL.)	6	15N	16E	7500
20K16*	TAHOE CITY (CAL.)	8	15N	17E	6250
20K13M	TRUCKEE #2 (CAL.)	22	17N	16E	6400
20K17M*	WARD CREEK (CAL.)	21	15N	16E	7000
20K2	WEBBER LAKE (CAL.)	20	19N	14E	6800
20K1*	WEBBER PEAK (CAL.)	30	19N	14E	8000

<b>CARSON RIVER</b>					
19L5	BLUE LAKES (CAL.)	30	9N	19E	8000
19L4	CARSON PASS, UPPER (CAL.)	22	10N	18E	8600
19K5	CLEAR CREEK	6	14N	19E	7300
19L1B	EBBETTS PASS (CAL.)	17	8N	20E	8700
19L6A	POISON FLAT (CAL.)	25	8N	21E	7900
19L16a	UPPER FISH VALLEY (CAL.)	18	7N	22E	8050
19L17	WET MEADOWS LAKE (CAL.)	26	9N	19E	8100

<b>WALKER RIVER</b>					
19L11	BUCKEYE FORKS (CAL.)	20	4N	23E	8500
19L10	BUCKEYE ROUGHS (CAL.)	15	4N	23E	7900
19L12A	CENTER MOUNTAIN (CAL.)	4	3N	23E	9400
18L1	LAPON MEADOW	36	8N	28E	9000
19L8	LEAVITT MEADOWS (CAL.)	4	5N	22E	7200
19L17a	LOBOELL LAKE	20	7N	24E	9200
18L2	MT. GRANT	23	8N	28E	9000
19L7M	SONORA PASS (CAL.)	1	5N	21E	8800
19M1*	TIOGA PASS (CAL.)	30	1N	25E	8900
19L13M	VIRGINA LAKES (CAL.)	5	2N	25E	9500
19L9	WILLOW FLAT (CAL.)	21	5N	23E	8250

## COLORADO

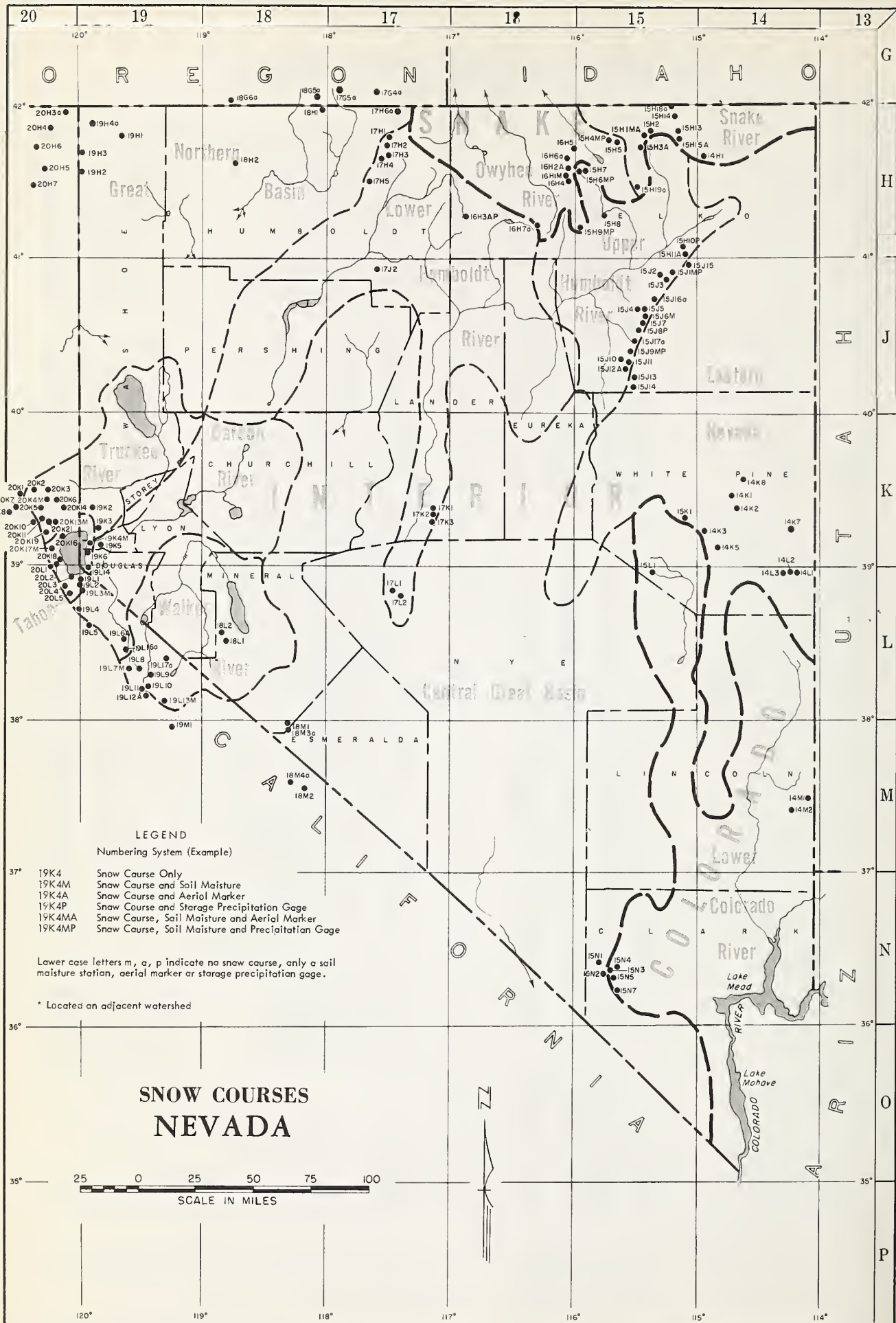
<b>LOWER COLORADO RIVER</b>					
15N5	KYLE CANYON	26	19S	56E	8200
15N4	LEE CANYON #1	10	19S	56E	8300
15N3	LEE CANYON #2	9	19S	56E	9000
14M1	MATHEW CANYON	11	5S	70E	6000
14M2	PINE CANYON	11	6S	69E	6200
15N7	RAINBOW CANYON #2	6	20S	57E	8100
15L1	WHITE RIVER #1	31	13N	59E	7400

## LEGEND NUMBERING SYSTEM (EXAMPLE)

19K4	SNOW COURSE ONLY
19K4M	SNOW COURSE AND SOIL MOISTURE
19K4A	SNOW COURSE AND AERIAL MARKER
19K4P	SNOW COURSE AND STORAGE PRECIPITATION GAGE
19K4MA	SNOW COURSE, SOIL MOISTURE AND AERIAL MARKER
19K4MP	SNOW COURSE, SOIL MOISTURE AND PRECIPITATION GAGE

LOWER CASE LETTERS m, a, p, INDICATE NO SNOW COURSE,  
ONLY A SOIL MOISTURE STATION, AERIAL MARKER OR STORAGE  
PRECIPITATION GAGE.

\* LOCATED ON ADJACENT WATERSHED<sup>1</sup>





WATER SUPPLY OUTLOOK  
FOR NEVADA

January 1, 1964

\*\*\*\*\*  
\* Snow survey measurements at selected key snow courses in \*  
\* Sierra and Humboldt-Owyhee-Snake watersheds revealed a \*  
\* 65 to 85 percent of normal January 1 mountain snowpack. \*  
\* If normal snowfall prevails the rest of the winter, Nevada \*  
\* water users should have an adequate water supply this coming \*  
\* spring and summer. Reservoir storage is much improved \*  
\* over that of a year ago. In aggregate, Nevada's princi- \*  
\* pal reservoirs hold 96 percent of their January 1 average \*  
\* and are 55 percent of capacity. \*  
\*\*\*\*\*

January 1, 1964 water storage in Lake Tahoe is 377,000 acre feet (87% January 1 average). This is 281,000 acre feet more than it held on January 1 a year ago. Storage in other Nevada reservoirs as percent of their January 1 average was as follows: Wildhorse - 218%; Rye Patch - 76%; Boca - 57%; Lahontan - 113%; Topaz - 133%; and Bridgeport - 135%.

The January 1, 1964 east slope Sierra snowpack is much better than a year ago. Very little snow has fallen during the past three weeks. As a result the present Sierra snowpack is below average; but not yet critical. Storms during the next three months, particularly January and February, will determine the sufficiency or insufficiency of the Walker-Carson-Truckee snowpack for spring-summer water production.

A similar situation exists in the Humboldt-Owyhee-Snake basins of Northeastern Nevada. However, a storm immediately following the January 1 snow surveys deposited additional snow which has improved the mountain snowpack in this area.

More extensive snow surveys are scheduled for February 1, 1964. At that time, the character of mountain snowpack should be better established and seasonal streamflow forecasts will be issued for a few representative stations around the State.

Page 10

The first part of the report deals with the general situation of the country. It is a very interesting and informative study of the country's development. The second part of the report deals with the specific details of the country's development. It is a very detailed and thorough study of the country's development. The third part of the report deals with the specific details of the country's development. It is a very detailed and thorough study of the country's development.

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The tenth part of the report deals with the specific details of the country's development. It is a very detailed and thorough study of the country's development. The eleventh part of the report deals with the specific details of the country's development. It is a very detailed and thorough study of the country's development.

# NEVADA

## STATUS OF RESERVOIR STORAGE

January 1, 1964

Basin and Stream	Reservoir	Usable Capacity (1000 AF)	Usable Storage 1000's A. F.			January 1 15-Yr. Av. 1943-57	Change Since Sept. 30, 1963	
			1964	1963	1962		1000's A.F.	
Owyhee	Wild Horse	33	24	17	8	11	+	1
Lower Humboldt	Rye Patch	179	71	74	5	94	-	1
Colorado	Mohave	1,810	1,551	1,699	1,681	1,506*	+	145
Colorado	Mead	27,217	16,012	22,990	18,023	18,140	-	1,359
Tahoe	Tahoe	732	377	96	0	434	-	19
Truckee	Boca	41	10	12	1	15	+	9
Carson	Lahontan	286	199	169	26	176	+	34
West Walker	Topaz	59	40	26	7	30	+	12
East Walker	Bridgeport	42	35	25	10	26	+	13

\* Storage began in 1950

### TOTAL RESERVOIR STORAGE

Developed from Wild Horse, Rye Patch, Tahoe, Boca, Lahontan, Topaz  
and Bridgeport Reservoirs in 1000's Acre Feet

MONTH	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64	AVERAGE 1943-57
October 1	985	489	263	65	345	707	732
January 1	890	367	206	57	419	756	787
February 1	947	398	218	73	558		842
March 1	1,038	494	254	210	696		877
April 1	1,066	592	285	318	760		923
May 1	1,036	632	300	499	844		971
TOTAL USABLE CAPACITY	1,372						





January 1, 1964

NEVADA SNOW SURVEYS

SNOW COVER MEASUREMENTS

Drainage Basin and Snow Course	Elev.	Date of Survey	1964		Past Record		Water Content	
			Snow Depth (Inches)	Water Content (Inches)	1963	1962	15-Yr. 1943-57 Average Jan. 1 Apr. 1	
<u>SNAKE RIVER</u>								
Bear Creek	8145	12/30	21	4.5a	2.9a	8.1a	7.1*	21.5*
Goat Creek	8800	12/30	20	4.2a	-	-	-	18.9*
Hummingbird Springs	8870	12/30	21	4.5a	2.9a	8.4a	7.8*	22.8*
Pole Creek	8330	12/31	23	4.9	3.4	7.6	6.7*	20.5*
Red Point	7940	12/30	15	3.2a	1.0a	3.1a	-	-
<u>OWYHEE RIVER</u>								
Big Bend	6700	12/31	14	2.7	T	3.3	3.3*	10.5
Gold Creek	6600	12/31	12	2.4	T	2.5	1.9*	6.0
Taylor Canyon	6200	1/2	8	1.2	0.0	1.8	1.8*	3.5
Upper Jack Creek	7250	1/2	17	2.5	T	4.8	3.5*	10.9
<u>HUMBOLDT RIVER</u>								
Fry Canyon	6700	1/2	16	2.0	T	3.5	3.1*	9.2
Rodeo Flat	6800	1/2	15	2.1	T	2.5	3.3*	8.7
Tremewan Ranch	5700	1/2	6	0.9	0.0	T	0.7*	0.8
<u>LAKE TAHOE-TRUCKEE RIVER</u>								
Freel Bench	7300	12/30	7	2.8	0.0	2.8	-	11.4*
Glenbrook #2	6900	12/29	12	3.0	0.0	2.2	-	14.5
Hagans Meadow	8000	12/30	13	4.1	T	4.1	-	19.0*
Richardsons #2	6500	12/29	15	4.4	0.0	4.4	-	17.8*
Upper Truckee	6400	12/30	4	1.8	0.0	2.8	-	7.4*
Ward Creek	7000	12/31	31	11.2	4.0	10.0	-	48.2*
<u>CARSON-WALKER RIVERS</u>								
Sonora Pass	8800	12/27	19	5.6	1.9	4.6	-	24.1
Virginia Lakes	9500	12/27	19	4.8	1.0	3.7	-	18.0*

\* Adjusted 15 year average

a Aerial snow depth gage reading; water content estimated



## Agencies Cooperating in Collecting Data Contained in this Bulletin

### FEDERAL

- Agricultural Research Service
- Army
- Bureau of Reclamation
- Fish and Wildlife Service
- Forest Service
- Geological Survey
- Navy
- Soil Conservation Service
- Weather Bureau

### STATE

- California Cooperative Snow Surveys
- California Department of Water Resources
- Colorado River Commission of Nevada
- Nevada Association of Soil Conservation Districts
- Nevada Cooperative Snow Surveys
- Nevada Department of Conservation & Natural Resources
  - Division of Water Resources
  - Nevada State Forester-Firewarden
- Oregon Cooperative Snow Surveys
- University of Nevada
- White Mountain Research Station, Univ. of California

### PRIVATE

- Amalgamated Sugar Company
- Kennecott Copper Corporation
- Nevada Irrigation District
- Owyhee Project North Board of Control
- Owyhee Project South Board of Control
- Pacific Gas & Electric Company
- Pershing County Water Conservation District
- Sierra Pacific Power Company
- Squaw Valley Development Company
- Truckee-Carson Irrigation District
- Virginia City Water Company
- Walker River Irrigation District
- Washoe County Water Conservation District

Other organizations and individuals furnish valuable information for the snow survey reports. Their Cooperation is gratefully acknowledged.

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with the Snow Survey"*